

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended). A method for transmitting voice data between a head part and a base part of a hands-free telephone, which comprises:

compressing information, being the voice data, to be transmitted using compression coding;

digitizing the compressed information;

spreading the digitized information over a wider frequency band using a CDMA technique;

performing a digital to analog conversion on the spread digitized information;

converting the digital to analog converted spread information into an ultrasound signal;

transmitting the ultrasound signal via an air interface;

at a receiver component, receiving the transmitted ultrasound signal and converting the received ultrasonic signal into an analog electrical signal;

performing an analog to digital conversion on the analog electrical signal;

despreading the analog to digital converted signal using a CDMA technique; and

decoding the despread analog to digital converted signal.

Claim 2 (cancelled).

Claim 3 (original). The method according to claim 1, which comprises reducing an effective bit rate of the information to be transmitted to about 1-10 kbit/s when performing the compression coding.

Claim 4 (cancelled).

Claim 5 (original). The method according to claim 1, wherein in performing the step of transmitting the ultrasound signal, the ultrasound signal is transmitted at a frequency between 200 and 400 kHz.

Claim 6 (original). The method according to claim 1, wherein in performing the step of spreading the digitized information, the digitized information is spread to ± 100 kHz.

Claim 7 (previously presented). A hands-free telephone comprising an ultrasonic transmission system including:

a compression coder for compression coding analog information;

a CDMA spreader for spreading digital information, which is obtained from said coded analog information, to a number of carrier frequencies using a CDMA technique;

a digital to analog converter for digital to analog converting the spread information; and

an ultrasonic transducer for converting the digital to analog converted spread information into an ultrasound signal and for transmitting the ultrasound signal over an air interface.

Claim 8 (cancelled).

Claim 9 (previously presented). The hands-free telephone according to claim 7, wherein said compression coder reduces an effective bit rate to about 1-10 kbit/s.

Claim 10 (original). The hands-free telephone according to claim 7, comprising a receiver that includes:

an ultrasonic transducer for receiving the transmitted ultrasound signal and for converting the received ultrasonic signal into an electrical signal;

an analog to digital converter for analog to digital converting the electrical signal; and

a CDMA desreader for desreading the analog to digital converted signal using a CDMA technique.